CLAIMS

WHAT IS CLAIMED IS:

1	1.	A composition for extoliation agent comprising:	
2		(a) a salt formed of hydrofluoric acid and a base containing no metal ion;	
3		(b) one or more water soluble organic solvents;	
4		(c) a sugar alcohol; and	
5		(d) water,	
6		wherein the pH of the composition is above 8, and the composition is	
7	effective in exfoliating resist residues.		
1	2.	The composition of claim 1, wherein the said composition comprises:	
2		0.001-1 % by weight of the composition of the salt formed of hydrofluoric	
3	acid and a base containing no metal ion;		
4		50-98 % by weight of the composition of the water soluble organic solvents;	
5		0.01-10 % by weight of the composition of the sugar alcohol; and	
6		balance of water.	
1	3.	The composition of claim 1, wherein the said composition comprises:	
2		0.005-0.5 % by weight of the composition of the salt formed of hydrofluoric	
3	acid and a base containing no metal ion;		
4		60-95 % by weight of the composition of the water soluble organic solvents;	
5		0.05-5 % by weight of the composition of the sugar alcohol; and	
6		balance of water.	
1	4.	The composition of claim 1, wherein the said composition comprises:	
2		0.05-0.3 % by weight of the composition of the salt formed of hydrofluoric	
3	acid and a base containing no metal ion;		
4		75-95 % by weight of the composition of the water soluble organic solvents;	
5		0.1-3 % by weight of the composition of the sugar alcohol; and	
6		balance of water.	
1	5.	The composition of claim 1, wherein the salt formed of hydrofluoric acid	
2	and a base containing no metal ion is ammonium fluoride.		

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1	6.	The composition of claim 1, wherein the sugar alcohol is xylitol.
1	7.	The composition of claim 1, wherein the pH of the said composition is from
2	about 8.5 to a	about 10.
1	8.	The composition of claim 1, wherein the composition further comprises a
2	surfactant in	an amount sufficient to improve the wetting property of the composition.
1	9.	A method of exfoliating the resist residues resulting from dry etching and
2	plasma ashin	g, comprising:
3		providing a substrate with resist residues resulting from dry etching and
4	plasma ashin	_
5		contacting the substrate with the composition of claim 1 for a time and at a
6	temperature sufficient to cause the composition to substantially remove the resist residues;	
7	and	
8		rinsing the substrate.
1	10.	A composition for exfoliation agent comprising:
2		(a) a salt formed of hydrofluoric acid and a base without metal ion;
3		(b) one or more water soluble organic solvents;
4		(c) a sugar alcohol;
5		(d) water; and
6		(e) hydrofluoric acid,
7		wherein the pH of the composition is above 8, and the composition is
8	effective in exfoliating resist residues.	
1	11.	The composition of claim 10, wherein the said composition comprises:
2		0.001-1 % by weight of the composition of the salt formed of hydrofluoric
3	acid and a base containing no metal ion;	
4		50-98 % by weight of the composition of the water soluble organic solvents;
5		0.01-10 % by weight of the composition of the sugar alcohol;
6		0.001-1 % by weight of the composition of hydrofluoric acid; and
7		balance of water.

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The composition of claim 10, wherein the said composition comprises:

2		0.005-0.5 % by weight of the composition of the salt formed of hydrofluoric		
3	acid and a base containing no metal ion;			
4		60-95 % by weight of the composition of the water soluble organic solvents;		
5		0.05-5 % by weight of the composition of the sugar alcohol;		
6		0.005-0.5 % by weight of the composition of hydrofluoric acid; and		
7		balance of water.		
1	13.	The composition of claim 10, wherein the said composition comprises:		
2		0.05-0.3 % by weight of the composition of the salt formed of hydrofluoric		
3	acid and a base containing no metal ion;			
4		75-95 % by weight of the composition of the water soluble organic solvents;		
5		0.1-3 % by weight of the composition of the sugar alcohol;		
6		0.05-0.3 % by weight of the composition of hydrofluoric acid; and		
7		balance of water.		
1	14.	The composition of claim 10, wherein the salt formed of hydrofluoric acid		
2	and a base containing no metal ion is ammonium fluoride.			
1	15.	The composition of claim 10, wherein the sugar alcohol is xylitol.		
1	16.	The composition of claim 10, wherein the pH of the said composition is		
2	from about 8.5 to about 10.			
1	17.	The composition of claim 10, wherein the composition further comprises a		
2	surfactant in	surfactant in an amount sufficient to improve the wetting property of the composition.		
1	18.	A method of exfoliating the resist residues resulting from dry etching and		
2	plasma ashing, comprising:			
3		providing a substrate with resist residues resulting from dry etching and		
4	plasma ashing;			
5		contacting the substrate with the composition of claim 10 for a time and at a		
6	temperature sufficient to cause the composition to substantially remove the resist residues;			
7	and			
8		rinsing the substrate.		

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